

APPLICATION FOR PERMIT TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

Date of filing in State Engineer's Office JUL 22 1988
 Returned to applicant for correction SEP 14 1988
 Corrected application filed OCT 18 1988
 Map filed OCT 19 1988

The applicant U.S. Department of Energy

Post Office Box 98518

Las Vegas

Street and No. or P.O. Box No.

City or Town

Nevada 89193-8518

State and Zip Code No.

, hereby make application for permission to appropriate the public waters of the State of Nevada, as hereinafter stated. (If applicant is a corporation, give date and place of incorporation; if a copartnership or association, give names of members.)

- The source of the proposed appropriation is Underground
Name of stream, lake, spring, underground or other source
- The amount of water applied for is 0.2 second-feet
One second-foot equals 448.83 gals. per min.
 (a) If stored in reservoir give number of acre-feet
- The water to be used for Other use (See No. 12) Industrial and Domestic
Irrigation, power, mining, manufacturing, domestic, or other use. Must limit to one use.
- If use is for:
 - Irrigation, state number of acres to be irrigated
 - Stockwater, state number and kinds of animals to be watered
 - Other use (describe fully under No. 12. "Remarks") See No. 12.
 - Power:
 - Horsepower developed
 - Point of return of water to stream
- The water is to be diverted from its source at the following point NE $\frac{1}{4}$ of the SW $\frac{1}{4}$ SEC. 19, T.13S.
Describe as being within a 40-acre subdivision of public survey, and by course and distance to a section corner. If on unsurveyed land, it should be so stated.
R.50E (MDB&M) at a distance of 13,298 feet from the SW corner of SEC. 31,
T.13S. R.50E. at bearing of S.08° 46' 06" W. (See attached map). Protracted.
- Place of use Sections 14-18, 19-23, 26-30, and 31-35, T.12S., R.50E.; Sections 13-36, T.12S., R.49E.; Sections 13, 25-29, and 32-36, T.12S., R.48E.; Sections 7-9, 16-21, and 28-33, T.13S., R.50E.; Sections 7-36, T.13S., R.49E.; Sections 10-15, 22-27, and 34-36, T.13S., R.48E.; Sections 4-9, T.14S., R.50E.; Sections 1-12, 15-22, and 27-34, T.14S., R.49E.; Sections 1-3, 10-15, 22-27, and 36, T.14S., R.48E.; Sections 3-6, T.15S., R.49E.; Section 1, T.15S., R.48E.
Describe by legal subdivision. If on unsurveyed land, it should be so stated.
- Use will begin about 01/01 and end about 12/31, of each year.
Month and Day Month and Day
- Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit plans and specifications of your diversion or storage works.) See attached sheet, No. 8.
State manner in which water is to be diverted, i.e. diversion structure, ditches and flumes, drilled well with pump and motor, etc.

9. Estimated cost of works..... Existing = 540,000; Planned = \$790,000

10. Estimated time required to construct works..... Five months. See No. 8 for details.
If well completed, describe works.

11. Estimated time required to complete the application of water to beneficial use..... 5 years.

12. Remarks: For use other than irrigation or stock watering, state number and type of units to be served or annual consumptive use:

This application is made in support of the site characterization program for
Yucca Mountain, Nevada. See the attached sheet (No. 12) for water use
estimates during the first 7 years of the site characterization program (No.
12a). Included on that attachment (No. 12b) is a breakdown of the various
uses to which the water will be applied.

By..... s/ Frank E. Bingham
P.O. Box 98518
Las Vegas, Nevada 89193-8518

Compared..... am/pm..... am/se

Protested 1/3/89 by U.S.A. National Park Service

Pro. overruled,
Ruling No. 3870

APPROVAL OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

This permit is issued subject to existing rights. It is understood that the amount of water herein granted is only a temporary allowance issued under the provisions of NRS 533.371 for a finite period of time. This permit will expire on April 9, 2002 and all rights herein will revert back to the source but subject to reinstatement and extension of the permit for good cause shown. It is also understood that this right must allow for a reasonable lowering of the static water level. This well shall be equipped with a two (2) inch opening for measuring depth to water. A totalizing meter must be installed and maintained in the discharge pipeline near the point of diversion and accurate measurements must be kept of water placed to beneficial use. The totalizing meter must be installed before any use of water begins, or before the Proof of Completion of Work is filed. The State retains the right to regulate the use of the water herein granted at any and all times.

This permit does not extend the permittee the right of ingress and egress on public, private or corporate lands.

The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal and local agencies.

(CONTINUED ON PAGE 2)

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, and not to exceed..... 0.2..... cubic feet per second, but not to exceed 94.83
acre-feet annually.

Work must be prosecuted with reasonable diligence and be completed on or before..... April 9, 1993

Proof of completion of work shall be filed before..... May 9, 1993

Application of water to beneficial use shall be filed on or before..... April 9, 2002

Proof of the application of water to beneficial use shall be filed on or before..... Permit Expires
N/A - April 9, 2002

Map in support of proof of beneficial use shall be filed on or before..... N/A

Completion of work filed..... AUG 12 1992

Proof of beneficial use filed.....

Cultural map filed.....

Certificate No..... Issued.....

IN TESTIMONY WHEREOF, I, R. MICHAEL TURNIPSEED, P.E.
State Engineer of Nevada, have hereunto set my hand and the seal of my

office, this..... 9th..... day of..... April.....

A.D. 1992

[Signature]
State Engineer

Delegated By 57376 E-49-02

(PERMIT TERMS CONTINUED)

This permit is issued subject to: 1) Compliance with the monitoring program titled "Monitoring Program for the Groundwater Levels and Spring Flows in the Yucca Mountain Region of Southern Nevada and California, February 1991, United States Department of Energy, Yucca Mountain Project Office." 2) Data collected from said monitoring program shall be submitted to the State Engineer's office on a quarterly basis, within 15 days after the end of each calendar quarter. 3) The terms and conditions set forth in State Engineer's Ruling No. 3870, dated March 2, 1992.

The amount of water pumped from this well shall be taken on a monthly basis and the pumpage submitted to the State Engineer's office on a quarterly basis with 15 days after the end of each calendar quarter.

EXPIRED
DATE APR 09 2002



No. 9 Well J-13 is an existing well on the NTS. The well is equipped with a pumping station (See specifications of well and pumping station on the drawing that accompanies this application). A 6.2-mile-long, 6-inch-diameter, poly-vinyl chloride pipe buried 2 feet below grade extends from the well to the border of the NTS.

A booster pumping station will be installed about halfway (based on elevation) between the well and the place of use (See specifications of pumping station on the drawing that accompanies this application). The existing pipeline will be extended approximately 4,100 feet to the place of use where it will be pumped into a 150,000-gallon water tank located in the NE 1/4, SEC. 36, T.12S, R.49E, and the water will be used throughout this same area.

12a. ESTIMATED ANNUAL WATER CONSUMPTION

YEAR 1	-	2.4 mill. gal.
YEAR 2	-	30.9 mill. gal.
YEAR 3	-	23.7 mill. gal.
YEAR 4	-	22.0 mill. gal.
YEAR 5	-	20.1 mill. gal.
YEAR 6	-	17.0 mill. gal.
YEAR 7	-	15.0 mill. gal.

No estimates available beyond 7 years.



12b. ESTIMATED WATER REQUIREMENTS FOR SITE CHARACTERIZATION
OF YUCCA MOUNTAIN

Activity	Gallons	Acre-feet
1. EXPLORATORY SHAFT FACILITY		
Site Preparation	6,700,000	20.5
ESF Surface Construction	2,100,000	6.4
ES-1 Collar	1,000,000	3
Sinking of ES-1.	6,400,000	19.6
ES-2 Construction.	2,600,000	8
Underground Construction	2,500,000	7.7
Testing/Construction	2,100,000	6.4
Dust Control	43,000,000	131.9
Contingency (10%).	6,640,000	20.4
2. SURFACE BASED TESTING		
Drilling (includes holes in unsaturated zone, water table, USW H-7, as well as geologic, volcanic, and calcite/silica holes, surface-facility holes, holes for Phase I and II of performance assessment, in situ stress holes, land holes for the southern tracer complex)	11,122,000	34
Testing (includes large- and small-plot rainfall simulation, ponding studies, and studies of in situ stress).	1,302,000	4
Dust Control	45,600,000	140
1. Total for ESF	73,040,000	224
2. Total for Surface Based	58,024,000	178
GRAND TOTAL	131,064,000	402

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 - (c) Other use (describe fully under "No. 12. Remarks")..... See No. 12.
 - (d) Power:
 - (1) Horsepower developed.....
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5. The water is to be diverted from its source at the following point..... NE 1/4 of the SW 1/4 SEC. 19, T.13S.
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By s/Frank E. Bingham
P.O. Box 98518
Las Vegas, Nevada 89193-8518
Compared bc/bk
Protested 1/3/89 by Owen R. Williams

OF STATE ENGINEER

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Proof of completion of work shall be filed on or before _____

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A.D. 19 _____

State Engineer

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